Forklift Mast Chain

Forklift Mast Chains - Utilized in various applications, leaf chains are regulated by ANSI. They can be used for lift truck masts, as balancers between counterweight and heads in some machine gadgets, and for tension linkage and low-speed pulling. Leaf chains are sometimes even known as Balance Chains.

Features and Construction

Leaf chains are actually steel chains using a simple link plate and pin construction. The chain number refers to the lacing of the links and the pitch. The chains have certain features like high tensile strength for every section area, that allows the design of smaller devices. There are A- and B- type chains in this series and both the BL6 and AL6 Series include the same pitch as RS60. Finally, these chains cannot be powered with sprockets.

Selection and Handling

In roller chains, the link plates have a higher fatigue resistance due to the compressive tension of press fits, yet the leaf chain only has two outer press fit plates. On the leaf chain, the maximum permissible tension is low and the tensile strength is high. When handling leaf chains it is important to consult the manufacturer's instruction manual so as to guarantee the safety factor is outlined and utilize safety measures at all times. It is a good idea to carry out extreme caution and utilize extra safety measures in applications wherein the consequences of chain failure are severe.

Higher tensile strength is a direct correlation to the use of a lot more plates. Because the use of a lot more plates does not improve the most allowable tension directly, the number of plates can be restricted. The chains need regular lubrication for the reason that the pins link directly on the plates, generating a very high bearing pressure. Utilizing a SAE 30 or 40 machine oil is frequently advised for nearly all applications. If the chain is cycled more than one thousand times daily or if the chain speed is over 30m for each minute, it would wear extremely quick, even with constant lubrication. Therefore, in either of these situations utilizing RS Roller Chains would be much more suitable.

The AL-type of chains should only be used under particular situations like if wear is really not a huge concern, if there are no shock loads, the number of cycles does not go beyond a hundred on a daily basis. The BL-type will be better suited under other situations.

If a chain using a lower safety factor is chosen then the stress load in parts would become higher. If chains are utilized with corrosive elements, then they can become fatigued and break somewhat easily. Performing regular maintenance is really important if operating under these kinds of situations.

The kind of end link of the chain, whether it is an inner link or outer link, determines the shape of the clevis. Clevis connectors or otherwise called Clevis pins are constructed by manufacturers but normally, the user provides the clevis. An improperly made clevis could decrease the working life of the chain. The strands should be finished to length by the maker. Check the ANSI standard or contact the maker.